BEFORE THE PUBLIC SERVICE COMMISSION OF SOUTH CAROLINA

IN THE MATTER OF:)	
)	
Application of Duke Energy Progress,)	DOCKET NO. 2018-318-E
LLC for Adjustments in Electric Rate)	
Schedules and Tariffs and Request for)	
an Accounting Order)	

Direct Exhibits

of

JEFFRY POLLOCK

On Behalf of

Nucor Steel - South Carolina

March 4, 2019



EXHIBIT LIST

Pollock Exhibits	Description
1	DEP's Proposed Class Revenue Allocation By Rate
2	Derivation of Surplus Depreciation Reserve
3	Adjustment to Revenue Requirement Assuming a Ten-Year Amortization of the Surplus Reserve
4	Revised Depreciation Accruals Assuming a Ten-Year Amortization
5	Illustration Showing the Impact of Amortizing a Depreciation Surplus
B-1	Estimated Impact of Recognizing Curtailable Service on DEP's Class Cost-of-Service Study Results
B-2	Estimated Firm Peak Demand Allocation Factors

DUKE ENERGY PROGRESS, LLC

DEP's Proposed Class Revenue Allocation By Rate Twelve Months Ended December 31, 2017 (Dollar Amounts in Thousands)

		Present Base	Proposed Base	Incre	2250
Line	Rate Class	Revenues	Revenues	Amount	Percent
		(1)	(2)	(3)	(4)
	Residential				
1	RES	\$212,623	\$242,379	\$29,756	14.0%
2	R-TOUD	\$3,775	\$4,311	\$536	14.2%
3	Total Residential	\$216,398	\$246,690	\$30,292	14.0%
	Small General Service				
4	SGS	\$31,035	\$35,823	\$4,788	15.4%
5	GS	\$425	\$500	\$76	17.8%
6	Total SGS	\$31,460	\$36,324	\$4,864	15.5%
7	SGS Constant Load	\$373	\$446	\$73	19.6%
	Medium General Service				
8	MGS	\$53,607	\$57,217	\$3,610	6.7%
9	SGS-TOU	\$83,612	\$89,788	\$6,177	7.4%
10	CSE	\$170	\$183	\$13	7.4%
11	CSG	\$ 5	\$5	\$1	20.9%
12	Total MGS	\$137,393	\$147,193	\$9,800	7.1%
	Large General Service				
13	LGS	\$49,234	\$53,886	\$4,651	9.4%
14	LGS-TOU	\$48,729	\$53,330	\$4,601	9.4%
15	LGS-CUR-TOU	\$29,987	\$33,069	\$3,081	10.3%
16	Total LGS	\$127,951	\$140,284	\$12,334	9.6%
17	Seasonal & Intermittent Service	\$2,009	\$2,134	\$125	6.2%
18	Traffic Signal Service (TSS)	\$70	\$90	\$20	28.8%
19	Area Lighting Service (ALS)	\$14,068	\$14,676	\$608	4.3%
	Street Lighting Service (SLS)				
20	SLS	\$3,553	\$4,018	\$465	13.1%
21	SLR	\$601	\$680	\$79	13.1%
22	Total SLS	\$4,154	\$4,698	\$543	13.1%
23	Sports Field Lighting Service	\$39	\$37	(\$2)	-5.2%
24	Total South Carolina Retail	\$533,914	\$592,572	\$58,657	11.0%

DUKE ENERGY PROGRESS

Derivation of Surplus Depreciation Reserve At December 31, 2016 (Amounts in \$000)

			Total Company	/	South Carolina				
Line	Function	Theoretical Reserve	Book Reserve	Difference	Theoretical Reserve	Book Reserve	Difference	Annual Accrual	Accrual Years
		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1	Steam Production	\$1,641,833	\$1,921,734	\$279,901	\$157,092	\$183,873	\$26,781	\$13,671	2.0
2	Nuclear Production*	\$3,469,767	\$3,891,211	\$421,444	\$331,990	\$372,314	\$40,324	\$20,752	1.9
3	Other Production	\$634,876	\$412,533	(\$222,343)	\$60,745	\$39,471	(\$21,274)	\$12,918	-1.6
4	Hydraulic Production	\$55,399	\$44,400	(\$10,999)	\$5,301	\$4,248	(\$1,052)	\$402	-2.6
5	Total Production	\$5,801,875	\$6,269,877	\$468,003	\$555,128	\$599,907	\$44,779	\$47,743	0.9
6	Transmission	\$637,682	\$794,310	\$156,628	\$59,332	\$73,905	\$14,573	4,234	3.4
7	Distribution	\$2,313,024	\$3,031,242	\$718,219	\$287,441	\$376,694	\$89,253	17,947	5.0
8	General	\$333,110	\$317,549	(\$15,561)	\$36,308	\$34,612	(\$1,696)	\$3,322	-0.5
9	Total	\$9,085,690	\$10,412,979	\$1,327,288	\$938,209	\$1,085,118	\$146,909	\$73,246	2.0

Source: Doss Exhibit 2b and Exhibit 3

^{*} Adjusted for Harris Disallowance

DUKE ENERGY PROGRESS

Adjustment to Revenue Requirement Assuming an Ten-Year Amortization of the Surplus Reserve (Amounts in \$000)

Line	Description	Amount	Source
		(1)	(2)
1	Surplus Reserve at December 31, 2016	\$146,909	Pollock Exhibit 5, Col 6, Line 9
2	Amortization Period (Years)	10	
3	Decrease Depreciation Expense / Increase in Net Plant	\$14,691	Line 1 ÷ Line 2
4	Proposed Rate of Return	7.473%	Bateman Exhibit 1, page 2
5	Revenue Requirement Conversion Factor	1.3384	Bateman Exhibit 1, page 2
6	Impact of Increase in Net Plant	\$1,469	Line 3 x Line 4 x Line 5
7	Adjustment to Depreciation Rates	\$5,776	Pollock Exhibit 7, Col 6, Line 9
8	Net Impact on Revenue Requirements	(\$7,446)	Line 6 + Line 7 - Line 3

DUKE ENERGY PROGRESS Revised Depreciation Accruals Assuming a Ten-Year Amortization At December 31, 2016 (Amounts in \$000)

South Carolina Jurisdiction Annual

		Total Company Annual Accruals			Accruals			
Line	Function	Theoretical Reserve	Actual Reserve	Difference	Theoretical Reserve	Actual Reserve	Difference	
		(1)	(2)	(3)	(4)	(5)	(6)	
1	Steam Production	\$162,968	\$142,885	\$20,083	\$15,593	\$13,671	\$1,922	
2	Nuclear Production	\$237,131	\$216,884	\$20,246	\$22,689	\$20,752	\$1,937	
3	Other Production	\$121,971	\$135,007	(\$13,036)	\$11,670	\$12,918	(\$1,247)	
4	Hydraulic Production							
5	Total Production	\$522,069	\$494,776	\$27,293	\$49,952	\$47,341	\$2,611	
6	Transmission	48,922	45,500	3,422	4,552	4,234	318	
7	Distribution	167,321	144,418	22,903	20,793	17,947	2,846	
8	General							
9	Total	\$738,312	\$684,694	\$53,618	\$75,297	\$69,521	\$5,776	

Source: Doss Exhibit 2b and Exhibit 3

Line	Place New Investment In Service					
		# 400.0				
1	Investment	\$100.0				
2	Life Span (Years)	20				
3	Depreciation Expense	\$5.0				
	Year	Depreciation Expense				
4	1	\$5.0				
5	2	\$5.0				
6	3	\$5.0				
7	4	\$5.0				
8	5	\$5.0				
9	6	\$5.0				
10	7	\$5.0				
11	8	\$5.0				
12	9	\$5.0				
13	10	\$5.0				
14	Total Years 1-10	\$50.0				

Pollock Exhibit 5
Page 2 of 4

Line	10-Year Life Extension in Year 10					
1	Theoretical Reserve	\$33.3				
2	Book Reserve	\$50.0				
3	Depreciation Surplus	\$16.7				

Line	Amortize Surplus Over 5 Years				
	Year	Depreciation Expense			
1	Years 11-15	\$0.0			
2	Years 16-30	\$3.3			
3	11	\$0.0			
4	12	\$0.0			
5	13	\$0.0			
6	14	\$0.0			
7	15	\$0.0			
8	16	\$3.3			
9	17	\$3.3			
10	18	\$3.3			
11	19	\$3.3			
12	20	\$3.3			
13	21	\$3.3			
14	22	\$3.3			
15	23	\$3.3			
16	24	\$3.3			
17	25	\$3.3			
18	26	\$3.3			
19	27	\$3.3			
20	28	\$3.3			
21	29	\$3.3			
22	30	\$3.3			
23	Total Years 11-30	\$50.0			
24	Total Years 1-10	\$50.0			
25	Grand Total	\$100.0			
	Costs Paid By Past/Future	e Customers			
26	Years 1-15	\$50.0			
27	Years 16-30	\$50.0			
28	Grand Total	\$100.0			

Line	Use Remaining Life Method (per KU's)						
1	Remaining Investment	\$50.0					
2	Life Span	20					
3	Depreciation Expense	\$2.5					
	Year	Depreciation Expense					
4	11	\$2.5					
5	12	\$2.5					
6	13	\$2.5					
7	14	\$2.5					
8	15	\$2.5					
9	16	\$2.5					
10	17	\$2.5					
11	18	\$2.5					
12	19	\$2.5					
13	20	\$2.5					
14	21	\$2.5					
15	22	\$2.5					
16	23	\$2.5					
17	24	\$2.5					
18	25	\$2.5					
19	26	\$2.5					
20	27	\$2.5					
21	28	\$2.5					
22	29	\$2.5					
23	30	\$2.5					
24	Total Years 11-30	\$50.0					
	Costs Paid By Past/Future	e Customers					
25	Years 1-15	\$62.5					
26	Years 16-30	\$37.5					
27	Grand Total	\$100.0					

Pollock Exhibit B-1 Page 1 of 2

DUKE ENERGY PROGRESS, LLC Estimated Impact of Recognizing Curtailable Service On DEP's Class Cost-of-Service Study Results 1 Summer CP Demand Allocation Test Year Ended December 31, 2017

Line	Description	SC RETAIL	SC RES	SC SGS	SC SGS-CLR	SC MGS
		(1)	(2)	(3)	(4)	(5)
	CCOSS Results Per DEP:					
1	Net Operating Income	\$62,417,986	\$18,982,916	\$2,893,941	\$6,910	\$23,707,783
2	Rate Base	\$1,521,662,201	\$700,798,897	\$111,703,035	\$1,440,144	\$340,793,395
3	Rate of Return (Line 1 ÷ Line 2)	4.10%	2.71%	2.59%	0.48%	6.96%
4	RROR	100%	66%	63%	12%	170%
	Corrected CCOSS Results:					
5	Assumed Curtailable Credits	\$10,000,000	\$0	\$0	\$0	\$0
6	Firm Peak Demand Allocator (Pollock Exhibit 3)	100.00%	43.86%	7.19%	0.05%	29.11%
7	Reallocate Curtailable Credits	(\$10,000,000)	(\$4,386,252)	(\$719,476)	(\$5,488)	(\$2,911,248)
8	Impact on Net Operating Income [(Line 5 + Line 7) ÷ 1.3324]	(\$0)	(\$3,291,993)	(\$539,985)	(\$4,119)	(\$2,184,966)
9	Adjusted Net Operating Income (Line 1 + Line 8)	\$62,417,986	\$15,690,923	\$2,353,956	\$2,791	\$21,522,817
10	Corrected Rate of Return (Line 9 ÷ Line 2)	4.10%	2.24%	2.11%	0.19%	6.32%
11	Corrected RROR	100	55	51	5	154

Pollock Exhibit B-1 Page 2 of 2

DUKE ENERGY PROGRESS, LLC Estimated Impact of Recognizing Curtailable Service On DEP's Class Cost-of-Service Study Results 1 Summer CP Demand Allocation Test Year Ended December 31, 2017

Line	Description	SC LGS	SC SI	SC TSS	SC ALS	SC SLS	SC SFL
		(6)	(7)	(8)	(9)	(10)	(11)
	CCOSS Results Per DEP:						
1	Net Operating Income	\$9,561,177	\$499,706	(\$14,585)	\$6,643,223	\$118,488	\$18,426
2	Rate Base	\$297,725,603	\$5,538,141	\$290,126	\$37,665,015	\$25,631,445	\$76,400
3	Rate of Return (Line 1 ÷ Line 2)	3.21%	9.02%	-5.03%	17.64%	0.46%	24.12%
4	RROR	78%	220%	-123%	430%	11%	588%
	Corrected CCOSS Results:						
5	Assumed Curtailable Credits	\$10,000,000	\$0	\$0	\$0	\$0	\$0
6	Firm Peak Demand Allocator (Pollock Exhibit 3)	19.51%	0.25%	0.01%	0.00%	0.00%	0.00%
7	Reallocate Curtailable Credits	(\$1,951,444)	(\$25,101)	(\$991)	\$0	\$0	\$0
8	Impact on Net Operating Income [(Line 5 + Line 7) ÷ 1.3324]	\$6,040,646	(\$18,839)	(\$744)	\$0	\$0	\$0
9	Adjusted Net Operating Income (Line 1 + Line 8)	\$15,601,822	\$480,867	(\$15,329)	\$6,643,223	\$118,488	\$18,426
10	Corrected Rate of Return (Line 9 ÷ Line 2)	5.24%	8.68%	-5.28%	17.64%	0.46%	24.12%
11	Corrected RROR	128	212	(129)	430	11	588

DUKE ENERGY PROGRESS, LLC Estimated Firm Peak Demand Allocation Factors <u>Test Year Ended December 31, 2017</u>

		Summer 1CP Demand	Estimated Curtailable Load	Firm Peak Demand	
Line	Rate Schedule	(kW)	(kW)	(kW)	Percent
		(1)	(2)	(3)	(4)
1	SC RES	487,425		487,425	43.86%
2	SC SGS	79,952		79,952	7.19%
3	SC SGS-CLR	610		610	0.05%
4	SC MGS	323,515		323,515	29.11%
5	SC LGS	291,026	74,170	216,856	19.51%
6	SC SI	2,789		2,789	0.25%
7	SC TSS	110		110	0.01%
8	SC ALS	0		0	0.00%
9	SC SLS	0		0	0.00%
10	SC SFLS	0		0	0.00%
11	Total SC Retail	1,185,427	74,170	1,111,257	100.00%